

# 2011-08-18 Thursday Morning Notes

Thursday, August 18, 2011  
7:28 AM

## Operational Notes

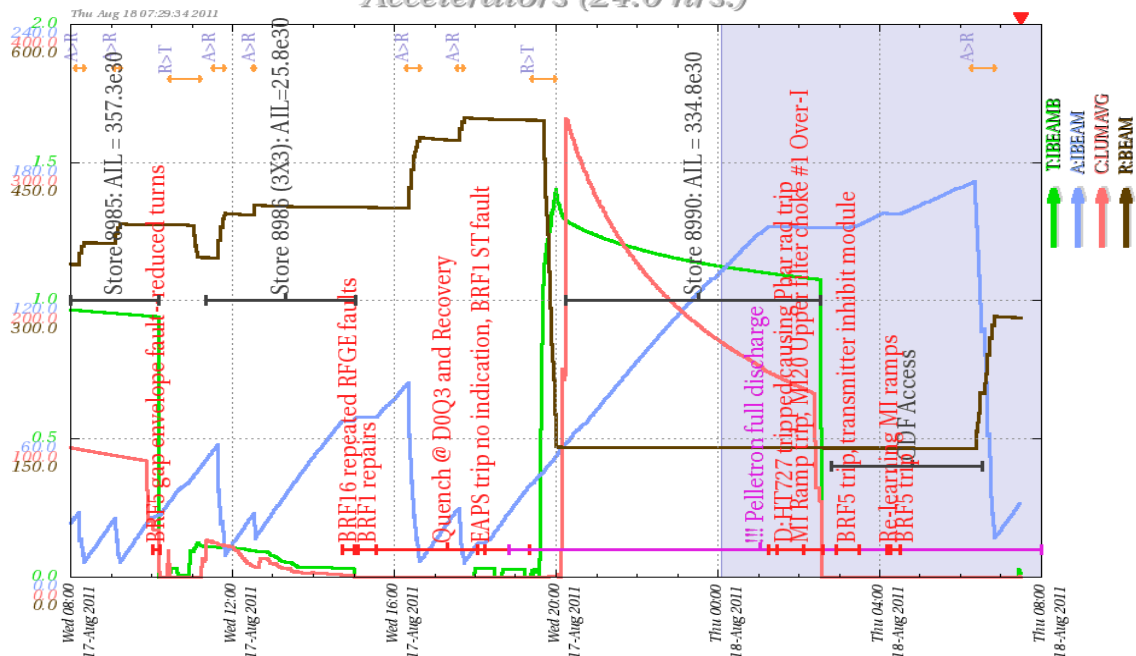
- This week has been Tevatron studies fest. Doing a bunch of 3x3 stores with some real stores mixed in.
- ~01:00 - D:HT727 blew a fuse. Fuse replaced and turned back on.

## Numbers

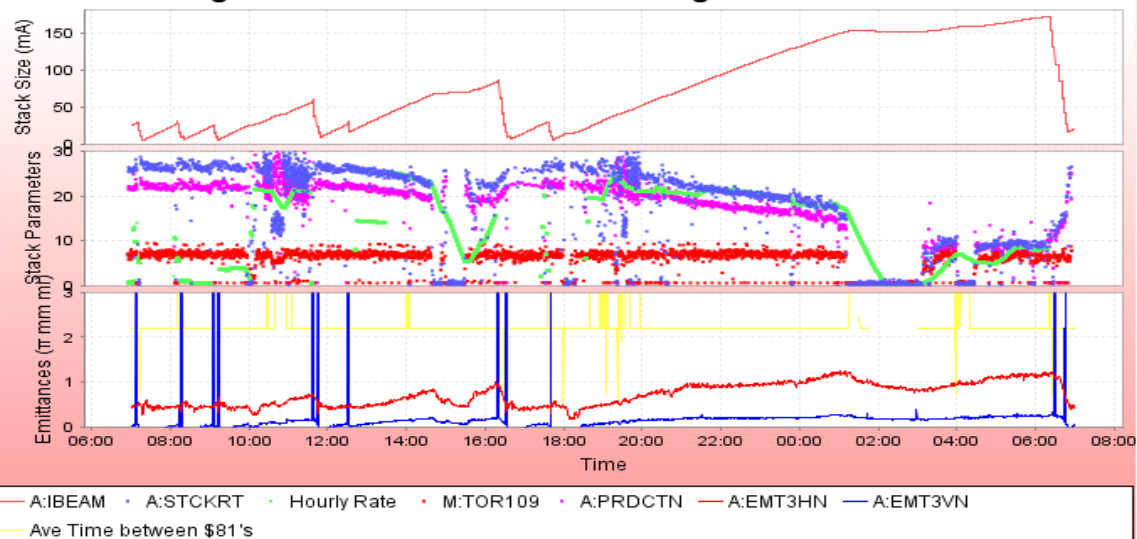
- Stacking
  - Pbars stacked: 417.76 E10
  - Time stacking: 22.02 Hr
  - Average stacking rate: 18.97 E10/Hr
- Uptime
  - Number of pulses while in stacking mode: 35045
  - Number of pulses with beam: 31234
  - Fraction of up pulses was: 89.13%
- The uptime's effect on the stacking numbers
  - Corrected time stacking: 19.62 Hr
  - Possible average stacking rate: 21.29 E10/Hr
  - Could have stacked: 468.73 E10/Hr
- Recycler Transfers
  - Pbars sent to the Recycler: 379.24 E10
  - Number of transfers : 28
  - Number of transfer sets: 7
  - Average Number of transfer per set: 4.00
  - Time taken to shoot including reverse proton tuneup: 00.10 Hr
  - Transfer efficiency: 94.07%
- Other Info
  - Average POT : 7.13 E12
  - Average production: 18.76 pbars/E6 protons

## Plots

## Accelerators (24.0 hrs.)



## Wed Aug 17 07:00:00 CDT 2011 -- Thu Aug 18 07:00:00 CDT 2011



## Pbar Source Accumulator, Debuncher, AP1, AP2, & AP3 Beamline Views

A:IBMINJ 7.75 e07  
A:FTOVR 2.025 %  
A:STMEDS 12.738 MeV  
A:R1HLFB 31.118 kV

A:FRWDTH 17.759 Hz  
A:CENFRQ 628897. Hz  
A:R2DDS1 628897. Hz

A:EMT3HN 0.503 pimm  
A:EMT3VN 0.113 pimm  
A:XFRNXT 75.0 mA

Program Running: Yes

V:APSMOD: Stacking

M:EFF 0.88  
M:TR105B 6.991 E12

G:TURN14 10.0 Turns  
E:14SUM3 7.988 E12

AP30 SERVICE BUILDING

A:STCKRT 24.088 mA/h

A:PRDCTN 20.569 E-6

A:IBEAM 38.215 mA

D:724TOR 6.976 E09

G:RD2116 Error mRem

D:INJFLX 25.068 McG

D:FLXBTL 1.536 uSec

D:R1HLFB 5.1 MV

D:BPM110 19518.7 McG

Z:PRDCTD 29.049 E-6

AP0 SERVICE BUILDING

D:TGTCHK 140.774 %

D:TGTPWR 61.62 KW

Pbar Beamlines BPM House Status

P1

P2

AP1

AP2 F27

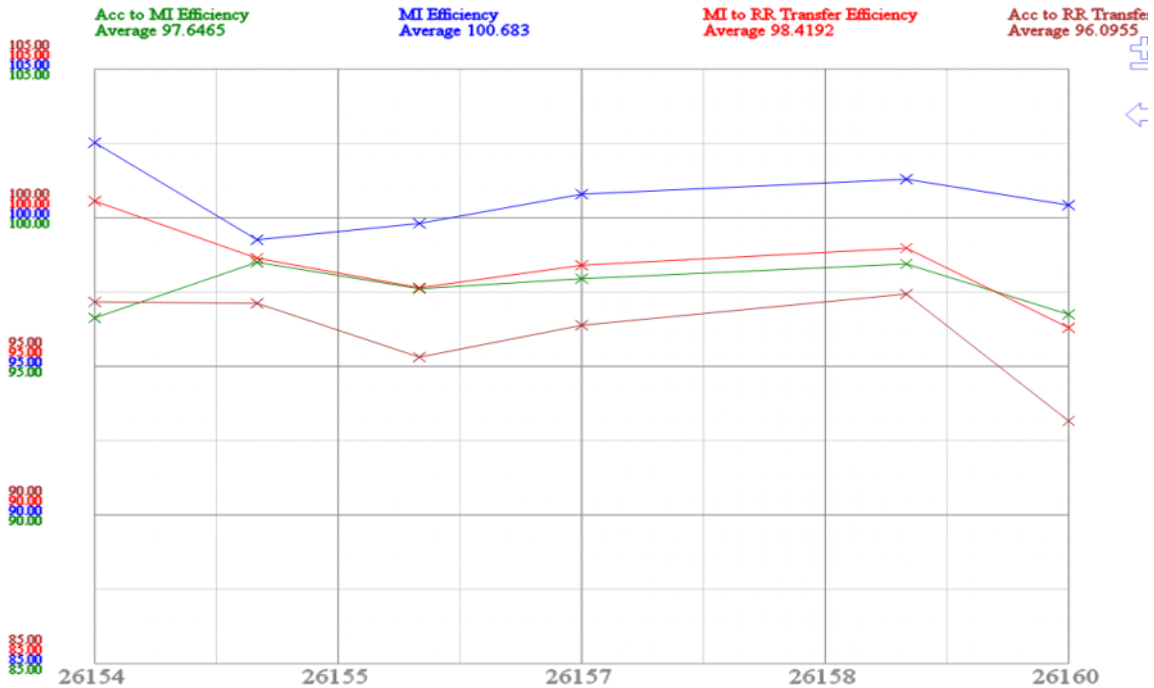
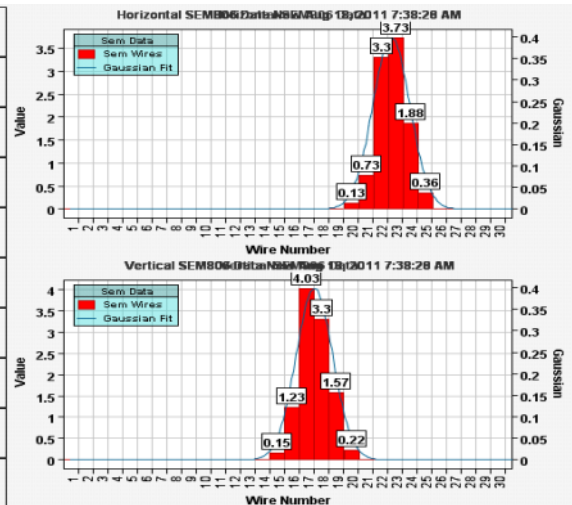
AP2 AP50

0x80 Event Detected

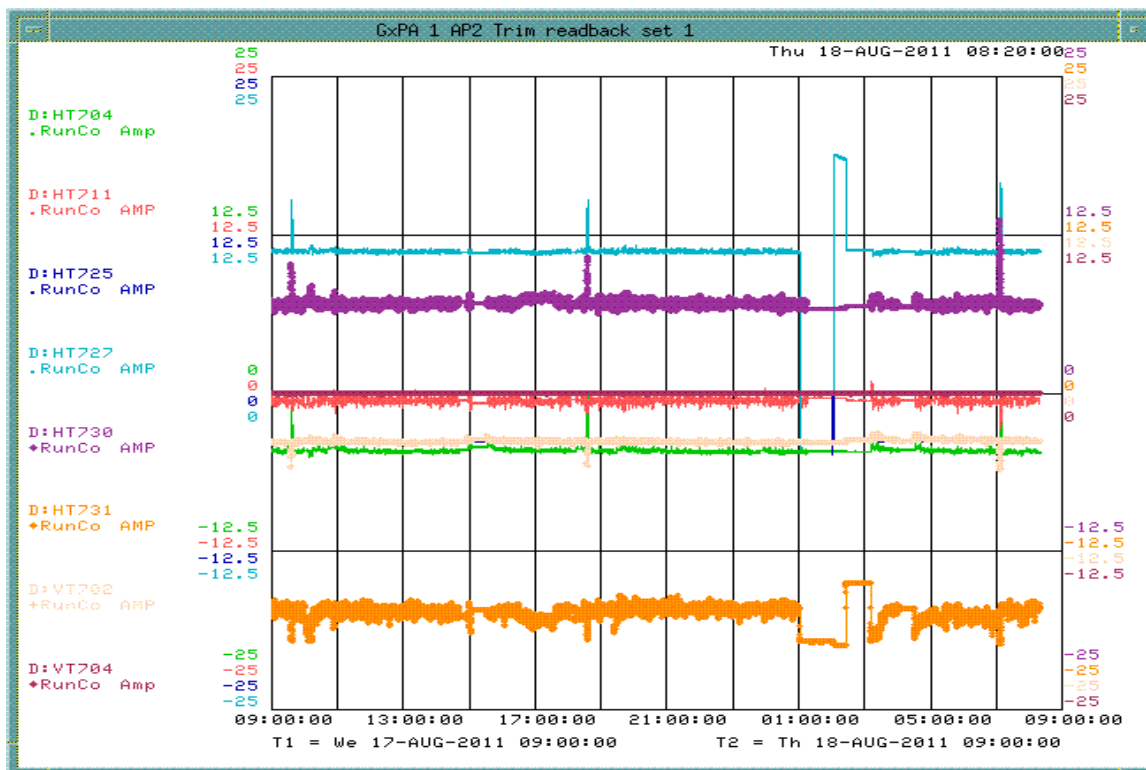
A:STCKAV 2.2 Secs

Overthruster Status

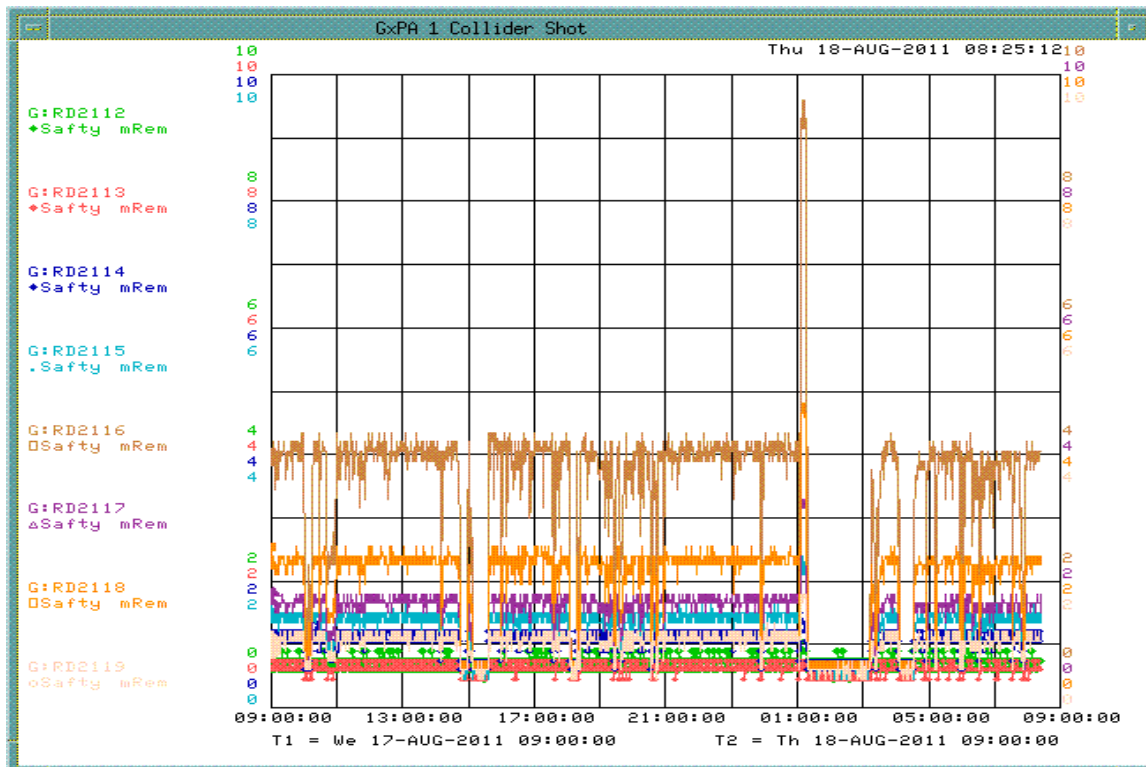
Horizontal Area New	<b>10.14</b>	Intensity
Horizontal Area Calc	<b>179.73</b>	Intensity
Horizontal Sigma New	<b>2.99</b>	mm
Horizontal Sigma Calc	<b>2.82</b>	mm
Horizontal Mean	<b>23.24</b>	mm
Vertical Area New	<b>10.49</b>	Intensity
Vertical Area Calc	<b>181.42</b>	Intensity
Vertical Sigma New	<b>2.99</b>	mm
Vertical Sigma Calc	<b>2.81</b>	mm
Vertical Mean	<b>7.59</b>	mm



Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3 Transfer Time	Column 21 Number _20_A-I BEAMB sampled on \$91 (A-BEA M7), E10	Column 22 Number _21_A-I BEAMB sampled on \$94 (A-BEA M9), E10	Unstacked (mA)	Column 23 Number _22_R-B EAMS (R-BEA ME0(0)) pre after E10	Column 24 Number _23_R-B EAM (R-BEA ME0(1)) post after E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Transfers	Sets	Column 5 Number_4_Acc Horizontal Emittance	Column 6 Number_5_Acc Vertical Emittance	Column 8 Number_7_Acc Longitudinal Emittance	
	Totals =>			295.92			279.76	94.54%	97.13%	97.37%	94.58%	22	6	5.2988	1.0347	1.9153	
	Daily Average =>			295.92			279.76						22	6			
26160	Thursday, August 18, 2011	6:22	171.92	16.84	159.62	139.86	283.64	148.27	92.89%	96.63%	96.89%	93.62%	8	1	8.934	1.773	1.601
26159	Wednesday, August 17, 2011	17:36	30.09	6.05	26.30	474.03	498.99	25.61	97.38%	98.54%	98.83%	97.39%	3	1	4.116	-0.14	1.959
26157	Wednesday, August 17, 2011	12:32	27.81	16.46	11.35	393.04	403.98	10.94	96.38%	97.95%	98.72%	96.70%	1	1	4.491	0.751	1.985
26156	Wednesday, August 17, 2011	11:38	57.57	9.21	51.93	346.46	394.91	49.57	95.46%	97.63%	97.16%	94.85%	4	1	5.533	0.58	1.948
26155	Wednesday, August 17, 2011	9:06	25.73	6.21	22.09	362.54	383.72	21.45	97.10%	98.07%	97.66%	95.77%	3	1	4.357	-0.117	2.016
26154	Wednesday, August 17, 2011	8:12	28.12	5.98	24.63	339.35	363.13	23.93	97.17%	96.62%	98.48%	95.15%	3	1	4.362	-0.331	1.983



D:HT727 blown fuse



Rad trip caused by D:HT727 trip